new/usr/src/common/smbios/smb info.c 41282 Wed Jan 30 11:28:01 2019 new/usr/src/common/smbios/smb_info.c 10145 smbios_info_boot() gets NULL check wrong 1 /* 2 * CDDL HEADER START 3 * 4 * The contents of this file are subject to the terms of the 5 * Common Development and Distribution License (the "License"). * You may not use this file except in compliance with the License. 6 7 8 * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE 9 * or http://www.opensolaris.org/os/licensing. 10 * See the License for the specific language governing permissions 11 * and limitations under the License. 12 * 13 * When distributing Covered Code, include this CDDL HEADER in each 14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE. 15 * If applicable, add the following below this CDDL HEADER, with the 16 * fields enclosed by brackets "[]" replaced with your own identifying 17 * information: Portions Copyright [yyyy] [name of copyright owner] 18 * 19 * CDDL HEADER END 20 */ 22 /* 23 * Copyright 2015 OmniTI Computer Consulting, Inc. All rights reserved. 24 * Copyright (c) 2018, Joyent, Inc. 24 * Copyright (c) 2017, Joyent, Inc. * Copyright 2010 Sun Microsystems, Inc. All rights reserved. 25 26 * Use is subject to license terms. 27 */ 29 /* 30 * SMBIOS Information Routines 31 * 32 * The routines in this file are used to convert from the SMBIOS data format to 33 * a more reasonable and stable set of structures offered as part of our ABI. 34 * These functions take the general form: 35 * * stp = smb_lookup_type(shp, foo); 36 37 * smb_foo_t foo; 38 * 39 * smb_info_bcopy(stp->smbst_hdr, &foo, sizeof (foo)); 40 * bzero(caller's struct); 41 * 42 * copy/convert foo members into caller's struct 43 * 44 * We copy the internal structure on to an automatic variable so as to avoid * checks everywhere for structures that the BIOS has improperly truncated, and 45 also to automatically handle the case of a structure that has been extended. 46 * When necessary, this code can use smb_gteq() to determine whether the SMBIOS 47 48 * data is of a particular revision that is supposed to contain a new field. 49 50 * Note, when trying to bzero the caller's struct you have to be careful about 51 * versions. One can only bzero the initial version that existed in illumos. In 52 * other words, if someone passes an older library handle that doesn't support a 53 * version you cannot assume that their structures have those additional members 54 * in them. Instead, a 'base' version is introduced for such types that have * differences and instead we only bzero out the base version and then handle 55 56 * the additional members. In general, because all additional members will be 57 * assigned, there's no reason to zero them out unless they are arrays that 58 * won't be entirely filled in.

1

59

60 * Due to history, anything added after the update from version 2.4, in other

new/usr/src/common/smbios/smb info.c 61 * words additions from or after '5094 Update libsmbios with recent items' 62 * (4e901881) is currently being used for this. While we don't allow software 63 * compiling against this to get an older form, this was the first major update 64 * and a good starting point for us to enforce this behavior which is useful for 65 * moving forward to making this more public. 66 */ 68 #include <sys/smbios impl.h> 69 #include <svs/bvteorder.h> 71 #ifdef KERNEL 72 #include <sys/sunddi.h> 73 #else 74 #include <fcntl.h> 75 #include <unistd.h> 76 #include <string.h> 77 #endif 79 /* 80 * A large number of SMBIOS structures contain a set of common strings used to 81 * describe a h/w component's serial number, manufacturer, etc. These fields 82 * helpfully have different names and offsets and sometimes aren't consistent. 83 * To simplify life for our clients, we factor these common things out into * smbios_info_t, which can be retrieved for any structure. The following 85 * table describes the mapping from a given structure to the smbios_info_t. 86 * Multiple SMBIOS stuctures' contained objects are also handled here. 87 */ 88 static const struct smb_infospec { 89 uint8_t is_type; /* structure type */ 90 uint8 t is manu; /* manufacturer offset */ 91 uint8_t is_product; /* product name offset */ 92 uint8_t is_version; /* version offset */ /* serial number offset */ 93 uint8 t is serial; 94 uint8 t is asset; /* asset tag offset */ /* location string offset */ 95 uint8_t is_location; 96 /* part number offset */ uint8 t is part; /* contained count */ 97 uint8_t is_contc; uint8 t is contsz; /* contained size */ 98 99 /* contained objects */ uint8_t is_contv; 100 } _smb_infospecs[] = { unchanged portion omitted 982 id_t 983 smbios_info_boot(smbios_hdl_t *shp, smbios_boot_t *bp) 984 { 985 const smb_struct_t *stp = smb_lookup_type(shp, SMB_TYPE_BOOT); 986 const smb_boot_t *b; 986 const smb_boot_t *b = (smb_boot_t *)(uintptr_t)stp->smbst_hdr; 988 if (stp == NULL) return (-1); /* errno is set for us */ 989 991 bzero(bp, sizeof (smbios_boot_t)); 993 b = (smb_boot_t *)(uintptr_t)stp->smbst_hdr; 995 bp->smbt_status = b->smbbo_status[0]; bp->smbt_size = stp->smbst_hdr->smbh_len - sizeof (smb_boot_t); 996 bp->smbt_data = bp->smbt_size ? &b->smbbo_status[1] : NULL; 997 return (stp->smbst hdr->smbh hdl); 999 1000 } unchanged_portion_omitted_